

Internship Posting Date: April 23, 2009

Intern Application Deadline: Open

Internship ID #: 09002



New Jersey Department of Environmental Protection Internship Opportunity

Internship: ☒ Summer ☒ Fall Semester ☒ Winter Break ☒ Spring Semester

Internship Type: ☐ Co-op* ☒ Credit-Bearing* ☒ Non-credit

Internship Pay: ☒ Non- Paid ☐ Paid Pay Rate:

Intern Level: ☒ Graduate School ☒ Undergraduate ☐ High School

Suggested Background or Knowledge: Engineering, Environmental Science, Physical Sciences with an interest in water and wastewater treatment

DEP Program Area and Work Unit Offering the Internship: Southern Bureau of Water Resources Compliance and Enforcement

Internship Location: The internship is located at the One Port Center Office Building in the City of Camden. The office is on the Camden Waterfront near the New Jersey State Aquarium, the Camden Children's Garden, the Susquehanna Bank Center, Campbell's Field. Public transportation is available via the New Jersey Transit's River Line and bus routes as well as the PATCO line.

Internship Project Description: The Southern Bureau of Water and Compliance Enforcement has a need for interns to research treatment technologies as part of the Bureau's compliance assistance efforts.

- Radium treatment technologies for water (Ion exchange, Reverse Osmosis, HMO, Selective Resin) and any backwash (wastewater) in different combinations at several locations and system sizes;
- Detergent treatment at a mobile home park that already removes Radium;
- Biochemical Oxygen Demand (BOD) in a specialty milk products discharge to a municipal sewer system;
- Wastewater nitrification and denitrification using several technologies to meet Total Nitrogen limits for ground discharge at several schools and other small facilities.
- Chemical pretreatment of a waste stream at a major industrial facility affecting the overall end-of-pipe treatment;
- Algae treatment and removal in a polishing lagoon

Estimated Project Duration and Suggested Weekly Work Schedule: Flexible

Internship Learning Objectives / Marketable Skills:

- Research and Knowledge in the Water and Wastewater Treatment Field
- Environmental Regulation and Permit Compliance Knowledge

* Co-op and Credit-Bearing Internships require approval of the internship by the student's Academic Department. The DEP Internship Sponsor has agreed to work with the student's Academic Department to provide a credit-worthy learning environment that benefits DEP goals. The student is responsible for all costs associated with receiving the credits from their educational institution.

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Description of DEP Program Area/Work Unit Offering the Internship:

The Southern Bureau of Water Enforcement is responsible for ensuring compliance with the State's water programs in Camden, Gloucester, Cumberland, Cape May, and Atlantic counties. A particular focus is placed on inspections of wastewater discharge and community drinking water supply facilities. The responsibilities of this office are to:

- Provide compliance assistance
- Investigate complaints and notifications of unauthorized activities
- Conduct inspections
- Issue enforcement documents, both formal and informal which may include assessed penalties for the Water Allocation program, the Water Supply and Wastewater Licensing Act, and against State certified laboratories that fail to comply with the laboratory certification requirements.
- Assist the Attorney General in developing enforcement cases
- Negotiate compliance schedule and penalty settlements
- Monitors compliance with all permits issued under the New Jersey Pollutant Discharge Elimination System for surface water, groundwater, and indirect discharges to Publicly Owned Treatment Works.

Internship Hiring Contact: Rebecca Jones (609) 984-4423 - rebecca.jones@dep.state.nj.us

Internship Sponsor: Edward Post

***For credit-bearing internships only:**

Sponsors Phone Numbers and Emails: Edward Post 856-614-3655 edward.post@dep.state.nj.us
Michael Pagano 856-614-3655 mike.pagano@dep.state.nj.us

Please Respond With a Completed Application Form, Resume, and Cover Letter to:

New Jersey Department of Environmental Protection / Division of Human Resources
P.O. Box 408 / Trenton, NJ 08625
Attn: Internship Program
Email Address: rebecca.jones@dep.state.nj.us

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